

Table 3a
Summary of Groundwater Analytical Results
MW1-LDF
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/10/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 0.17
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	1.2 ^J
Dissolved Iron	300	150	µg/l	204
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	21.2
Field Measurements				
Temperature			°F	50.55
Conductivity			µS/cm	547
pH				6.37
Dissolved Oxygen			mg/l	0.31
ORP			mV	181.3

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3b
Summary of Groundwater Analytical Results
MW2-LDF
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/10/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 0.17
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	3.2 ^J
Dissolved Cadmium	5	0.5	µg/l	1.2 ^J
Dissolved Iron	300	150	µg/l	16.3 ^J
Nitrate (as N)	10	2	mg/l	0.48
Sulfate	250	125	mg/l	22.8
Field Measurements				
Temperature			°F	53.11
Conductivity			µS/cm	2,035
pH				7.24
Dissolved Oxygen			mg/l	2.13
ORP			mV	270.2

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3c
Summary of Groundwater Analytical Results
MW3-LDF
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/10/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 0.17
1,2-Dibromothane	0.05	0.005	µg/l	< 0.18
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	1.4 ^J
Dissolved Iron	300	150	µg/l	< 12.9
Nitrate (as N)	10	2	mg/l	0.35
Sulfate	250	125	mg/l	2.8 ^J
Field Measurements				
Temperature			°F	52.43
Conductivity			µS/cm	139
pH				6.72
Dissolved Oxygen			mg/l	7.78
ORP			mV	278.1

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

**Table 3d
Summary of Groundwater Analytical Results
MW16
Tower Standard
Lac du Flambeau, Wisconsin**

			Date ->	11/17/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	6.3
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	2.7
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1.1
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 0.50
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	< 0.60
Dissolved Iron	300	150	µg/l	15,400
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	< 10.0
Field Measurements				
Temperature			°F	52.03
Conductivity			µS/cm	472
pH				6.63
Dissolved Oxygen			mg/l	0.15
ORP			mV	1.5

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3e
Summary of Groundwater Analytical Results
MW16@37-42
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2016
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	1,340
Toluene	800	160	µg/l	22.1
Ethylbenzene	700	140	µg/l	60.3
Xylenes (mixed isomers)	2,000	400	µg/l	1,520.2
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 1.7
Trimethylbenzenes (mixed isomers)	480	96	µg/l	371.1
Naphthalene	100	10	µg/l	84.7
1,2-Dichloroethane	5	0.5	µg/l	< 1.7
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8
Isopropylbenzene			µg/l	17.0
n-Butylbenzene			µg/l	< 5.0
n-Propylbenzene			µg/l	45.5
Inorganics				
Dissolved Lead	15	1.5	µg/l	4.5^J
Dissolved Cadmium	5	0.5	µg/l	< 0.60
Dissolved Iron	300	150	µg/l	5,920
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	< 2.0
Field Measurements				
Temperature			°F	50.45
Conductivity			µS/cm	843
pH				7.31
Dissolved Oxygen			mg/l	0.21
ORP			mV	-378

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3f
Summary of Groundwater Analytical Results
MW17
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2016
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	1.0
Toluene	800	160	µg/l	2.3
Ethylbenzene	700	140	µg/l	0.51 ^J
Xylenes (mixed isomers)	2,000	400	µg/l	2.3
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.60 ^J
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 1.7
1,2-Dibromothane	0.05	0.005	µg/l	< 1.8
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	< 0.60
Dissolved Iron	300	150	µg/l	1,060
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	6.1
Field Measurements				
Temperature			°F	53.06
Conductivity			µS/cm	508
pH				6.26
Dissolved Oxygen			mg/l	1.55
ORP			mV	83.0

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3g
Summary of Groundwater Analytical Results
MW17@31-36
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2016
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 1.7
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	< 0.60
Dissolved Iron	300	150	µg/l	4,980
Nitrate (as N)	10	2	mg/l	0.68
Sulfate	250	125	mg/l	20.9
Field Measurements				
Temperature			°F	50.78
Conductivity			µS/cm	590
pH				7.08
Dissolved Oxygen			mg/l	3.00
ORP			mV	-282.4

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3h
Summary of Groundwater Analytical Results
MW18
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2016
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 1.7
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	< 0.60
Dissolved Iron	300	150	µg/l	< 12.9
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	13.5
Field Measurements				
Temperature			°F	51.8
Conductivity			µS/cm	509
pH				6.46
Dissolved Oxygen			mg/l	3.73
ORP			mV	229.6

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3i
Summary of Groundwater Analytical Results
MW18@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2016
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 1.7
1,2-Dibromothane	0.05	0.005	µg/l	< 1.8
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	0.63 ^J
Dissolved Iron	300	150	µg/l	247
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	9.1
Field Measurements				
Temperature			°F	52.36
Conductivity			µS/cm	439
pH				7.13
Dissolved Oxygen			mg/l	5.98
ORP			mV	93.1

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3j
Summary of Groundwater Analytical Results
MW19
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 0.17
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.18
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	3.4 ^J
Dissolved Cadmium	5	0.5	µg/l	0.90 ^J
Dissolved Iron	300	150	µg/l	704
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	7.0
Field Measurements				
Temperature			°F	52.96
Conductivity			µS/cm	470
pH				6.32
Dissolved Oxygen			mg/l	0.52
ORP			mV	117.9

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3k
Summary of Groundwater Analytical Results
MW19@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	117
Toluene	800	160	µg/l	39.1
Ethylbenzene	700	140	µg/l	395
Xylenes (mixed isomers)	2,000	400	µg/l	898.1
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.87
Trimethylbenzenes (mixed isomers)	480	96	µg/l	165.8
Naphthalene	100	10	µg/l	75.1
1,2-Dichloroethane	5	0.5	µg/l	< 0.84
1,2-Dibromothane	0.05	0.005	µg/l	< 0.89
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	3.7 ^J
n-Propylbenzene			µg/l	35.8
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	1.1 ^J
Dissolved Iron	300	150	µg/l	3,820
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	10.8 ^J
Field Measurements				
Temperature			°F	52.4
Conductivity			µS/cm	326
pH				7.41
Dissolved Oxygen			mg/l	5.58
ORP			mV	-15.3

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3I
Summary of Groundwater Analytical Results
MW20
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	10,100
Toluene	800	160	µg/l	35,800
Ethylbenzene	700	140	µg/l	3,180
Xylenes (mixed isomers)	2,000	400	µg/l	19,230
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 34.8
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1,939
Naphthalene	100	10	µg/l	654^J
1,2-Dichloroethane	5	0.5	µg/l	< 100
1,2-Dibromothane	0.05	0.005	µg/l	< 35.6
Isopropylbenzene			µg/l	64.3 ^J
n-Butylbenzene			µg/l	< 100
n-Propylbenzene			µg/l	192 ^J
Inorganics				
Dissolved Lead	15	1.5	µg/l	20.7
Dissolved Cadmium	5	0.5	µg/l	1.7^J
Dissolved Iron	300	150	µg/l	1,440
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	< 10.0
Field Measurements				
Temperature			°F	58.83
Conductivity			µS/cm	1,091
pH				6.42
Dissolved Oxygen			mg/l	4.33
ORP			mV	103.1

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3m
Summary of Groundwater Analytical Results
MW20@20-25
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	17,600
Toluene	800	160	µg/l	21,600
Ethylbenzene	700	140	µg/l	2,640
Xylenes (mixed isomers)	2,000	400	µg/l	14,060
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 21.8
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1,793
Naphthalene	100	10	µg/l	381^J
1,2-Dichloroethane	5	0.5	µg/l	< 21.0
1,2-Dibromothane	0.05	0.005	µg/l	64.0^J
Isopropylbenzene				54.4 ^J
n-Butylbenzene			µg/l	< 62.5
n-Propylbenzene			µg/l	168
Inorganics				
Dissolved Lead	15	1.5	µg/l	31.5
Dissolved Cadmium	5	0.5	µg/l	<i>0.86^J</i>
Dissolved Iron	300	150	µg/l	6,130
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	< 10.0
Field Measurements				
Temperature			°F	55.64
Conductivity			µS/cm	1,010
pH				6.25
Dissolved Oxygen			mg/l	3.83
ORP			mV	88.2

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3n
Summary of Groundwater Analytical Results
MW21
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	632
Toluene	800	160	µg/l	2,510
Ethylbenzene	700	140	µg/l	2,600
Xylenes (mixed isomers)	2,000	400	µg/l	8,570
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 4.4
Trimethylbenzenes (mixed isomers)	480	96	µg/l	2,435
Naphthalene	100	10	µg/l	640
1,2-Dichloroethane	5	0.5	µg/l	< 4.2
1,2-Dibromothane	0.05	0.005	µg/l	< 4.4
Isopropylbenzene			µg/l	66.1
n-Butylbenzene			µg/l	46.3
n-Propylbenzene			µg/l	228
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	<i>0.69^J</i>
Dissolved Iron	300	150	µg/l	27,900
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	< 10.0
Field Measurements				
Temperature			°F	57.29
Conductivity			µS/cm	470
pH				6.61
Dissolved Oxygen			mg/l	1.76
ORP			mV	-1.7

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3o
Summary of Groundwater Analytical Results
MW21@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/11/2015
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	1,110
Toluene	800	160	µg/l	<i>686</i>
Ethylbenzene	700	140	µg/l	<i>274</i>
Xylenes (mixed isomers)	2,000	400	µg/l	<i>1,406</i>
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 1.7
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<i>339.5</i>
Naphthalene	100	10	µg/l	<i>63.1</i>
1,2-Dichloroethane	5	0.5	µg/l	< 1.7
1,2-Dibromothane	0.05	0.005	µg/l	< 1.8
Isopropylbenzene			µg/l	9.0 ^d
n-Butylbenzene			µg/l	14.6
n-Propylbenzene			µg/l	31.4
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	< 0.60
Dissolved Iron	300	150	µg/l	44,600
Nitrate (as N)	10	2	mg/l	< 0.095
Sulfate	250	125	mg/l	< 2.0
Field Measurements				
Temperature			°F	53.15
Conductivity			µS/cm	1,615
pH				6.5
Dissolved Oxygen			mg/l	3.82
ORP			mV	29.2

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3p
Summary of Groundwater Analytical Results
MW22
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2016
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	2.5
Ethylbenzene	700	140	µg/l	11.9
Xylenes (mixed isomers)	2,000	400	µg/l	55.1
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	80.2
Naphthalene	100	10	µg/l	5.2
1,2-Dichloroethane	5	0.5	µg/l	< 1.7
1,2-Dibromoethane	0.05	0.005	µg/l	< 1.8
Isopropylbenzene			µg/l	1.0
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	2.3
Inorganics				
Dissolved Lead	15	1.5	µg/l	< 3.0
Dissolved Cadmium	5	0.5	µg/l	< 0.60
Dissolved Iron	300	150	µg/l	63.4J
Nitrate (as N)	10	2	mg/l	3.9
Sulfate	250	125	mg/l	9.5
Field Measurements				
Temperature			°F	54.12
Conductivity			µS/cm	204
pH				6.46
Dissolved Oxygen			mg/l	1.02
ORP			mV	229.4

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3q
Summary of Groundwater Analytical Results
MW22@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	11/17/2016
Detected VOC Parameters	ES	PAL	Units	
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	< 0.50
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	0.75 ^J
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	< 2.5
1,2-Dichloroethane	5	0.5	µg/l	< 1.7
1,2-Dibromothane	0.05	0.005	µg/l	< 1.8
Isopropylbenzene			µg/l	< 0.14
n-Butylbenzene			µg/l	< 0.50
n-Propylbenzene			µg/l	< 0.50
Inorganics				
Dissolved Lead	15	1.5	µg/l	3.7 ^J
Dissolved Cadmium	5	0.5	µg/l	< 0.60
Dissolved Iron	300	150	µg/l	< 12.9
Nitrate (as N)	10	2	mg/l	0.38
Sulfate	250	125	mg/l	29.3
Field Measurements				
Temperature			°F	52.9
Conductivity			µS/cm	388
pH				7.83
Dissolved Oxygen			mg/l	3.55
ORP			mV	249.5

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation